



Planars - Array Caps for EMI Filtering

Johanson Dielectrics is the premier supplier of Planar Capacitor EMI Filter Arrays to the Filtered Connector Industry. Johanson filters exhibit excellent RF performance, as well as high SRF's (Series Resonant Frequency). Planar Capacitors are the fundamental building block for filtered connectors in Aerospace, Biomedical, Military, Satellite, Industrial and Communication electronics

Johanson offers NP0, X7R and MOV (Metal Oxide Varistor) Planar Arrays in standard and custom solutions to fit your needs (1 to 150 pins).

MOV planar arrays can be used singularly to form low pass capacitive filters with the additional benefit of transient voltage protection. When combined together with planar array capacitors, they can form balanced and unbalanced Pi filters with transient voltage protection. The MOV technology enables smaller connectors to be built when compared to other discrete voltage protection component solutions, such as diodes.

We are eager to quote your custom requirements and unique products, in addition to your commercial or Mil-Standard needs.

Key Features:

- Custom Designs & Geometries
- Circular Arrays and Rectangular Arrays
- Widely Used in EMI Filtering Systems
- Offered in NP0, X7R and MOV (Metal Oxide Varistor)

Ordering Information:

Planar filters are all custom designs as are the part numbers. Planars can be built to customer specifications or can be custom designed to fit customer sensor. For custom designs, Johanson Dielectrics requires the following information at minimum:

- Capacitance value and tolerance
- Rated voltage and DWV requirement
- Length and width or OD (if circular)
- ID dimension or pin/contact size of sensor
- Thickness max

Applications		
Connectors	Voltage Multipliers	Custom Applications
Surge Protection	Industrial Control Circuits	

Custom Capacitor Arrays - EMI Filter Products

Custom Capacitors enable a virtually unlimited custom array capability. Any shape, configuration or geometry is possible, and the performance characteristics of our arrays are only limited by the physics of the materials being used, and Johanson Dielectrics is constantly focused on new material development to establish new limits. If you have a requirement and someone has said NO, call us because we want to say YES!



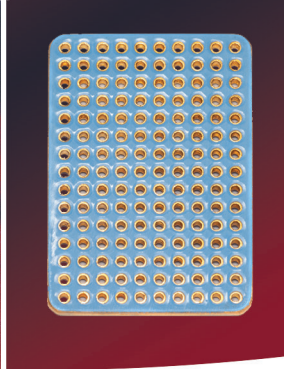
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Circular, Rectangular & D-Subminiature Arrays

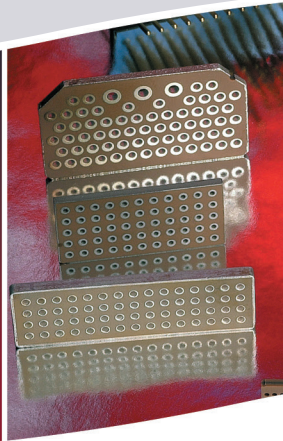
EMI Filter Types Available



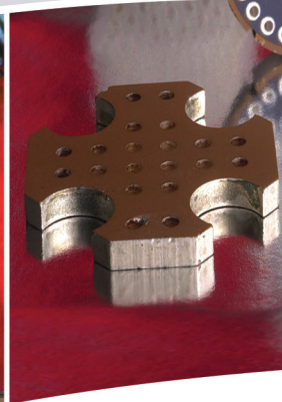
Circular Arrays



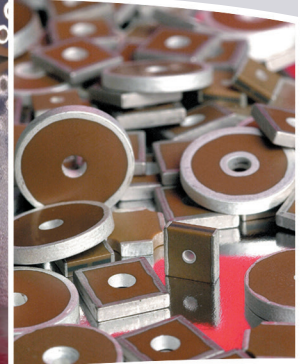
Rectangular Arrays
(ARINC 404/600)



D-Subminiature
Rectangular Arrays



Custom Capacitor Arrays



Discoidal Capacitors

Ask about your specific requirements
(see resource link below)

Circular Arrays - EMI Filter Products

Example Physical Layout	Dielectric Material	Available Capacitance	Working Voltage	DWV Voltage
MIL-1560	X7R, NP0 and Selected MOV	47 pF to 1000 nF	Up to 2,000 VDC	Up to 2,500V VDC
MIL-1554				
MIL-1669				
MIL-1651				
MIL-1698				
MIL-33702				
MIL-AUDIO				

Rectangular Arrays (ARINC 404/600) - EMI Filter Products

Example Physical Layout	Dielectric Material	Available Capacitance	Working Voltage	DWV Voltage
AR-010 Through AR-150	X7R, NP0 and Selected MOV	47 pF to 1000 nF	Up to 2000 VDC	Up to 2,500V VDC

D-Subminiature Rectangular Arrays - EMI Filter Products

Example Physical Layout	Dielectric Material	Available Capacitance	Working Voltage	DWV Voltage
Full size	X7R, NP0 & Selected MOV	47pF - 210nF	≤ 2,400	≤ 3,600
Mini-D		47pF - 100nF	≤ 1,000	≤ 1,500
Micro-D		47pF - 22.5nF	≤ 680	≤ 1,020
Nano-D		47pF - 3.0nF	≤ 200	≤ 500
Combo-D		47pF - 6.0nF	≤ 800	≤ 1,200
Power-D		47pF - 6.0nF	≤ 680	≤ 1,020

Ask us about your specific requirements: <https://www.johansondielectrics.com/ceramic-capacitor-substrates>

RESOURCE ► <https://www.johansondielectrics.com/planar-array-capacitors>